

HLG-320H series



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Features

- Constant Voltage + Constant Current mode output
- Metal housing with class I design
- · Built-in active PFC function
- IP67 / IP65 rating for indoor or outdoor installations
- · Function options: output adjustable via potentiometer; 3 in 1 dimming
- Typical lifetime > 62000 hours
- 7 years warranty

Applications

- · LED street lighting
- LED high-bay lighting
- · Parking space lighting
- LED fishing lamp
- LED greenhouse lighting
- Type "HL" for use in Class I, Division 2 hazardous (Classified) location.

GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

HLG-320H series is a 320W AC/DC LED driver featuring the dual mode constant voltage and constant current output. HLG-320H operates from 90 ~ 305VAC and offers models with different rated voltage ranging between 12V and 54V. Thanks to the high efficiency up to 94%, with the fanless design, the entire series is able to operate for -40° C ~ $+90^{\circ}$ C case temperature under free air convection. The design of metal housing and IP67/IP65 ingress protection level allows this series to fit both indoor and outdoor applications. HLG-320H is equipped with various function options, such as dimming methodologies, so as to provide the optimal design flexibility for LED lighting system.

Model Encoding



Function options

Rated output voltage (12V/15V/20V/24V/30V/36V/42V/48V/54V)

- Rated wattage
- Series name

Туре	IP Level	Function	Note
Blank	IP67	lo and Vo fixed	In Stock
A	IP65	Io and Vo adjustable through built-in potentiometer	In Stock
В	IP67	3 in 1 dimming function (1~10VDC, 10V PWM signal and resistance)	In Stock
AB	IP65	Io adjustable through built-in potentiometer & 3 in 1 dimming function (1~10Vdc, 10V PWM signal and resistance)	In Stock
С		Terminal block for I/O connection. Output voltage and constant current level can be adjusted through internal potentiometer.	By request
D	IP67	Timer dimming function, contact MEAN WELL for details(safety pending).	By request

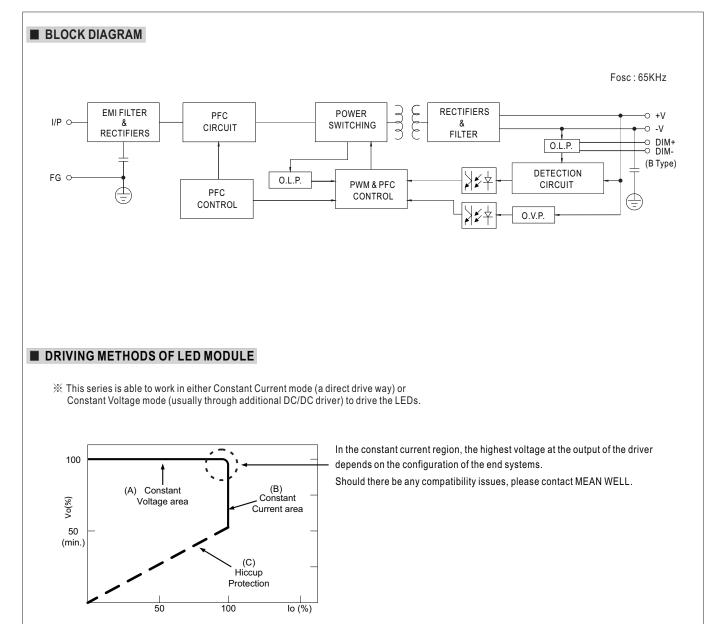


SPECIFICATION

MODEL		HLG-320H-12	HLG-320H-15	HLG-320H-20	HLG-320H-24	HLG-320H-30	HLG-320H-36	HLG-320H-42	HLG-320H-48	HLG-320H-54	
	DC VOLTAGE	12V	15V	20V	24V	30V	36V	42V	48V	54V	
OUTPUT	CONSTANT CURRENT REGION Note.4	6~12V	7.5 ~ 15V	10~20V	12 ~ 24V	15 ~ 30V	18 ~ 36V	21 ~ 42V	24~48V	27 ~ 54V	
	RATED CURRENT	22A	19A	15A	13.34A	10.7A	8.9A	7.65A	6.7A	5.95A	
	RATED POWER	264W	285W	300W	320.16W	321W	320.4W	321.3W	321.6W	321.3W	
	RIPPLE & NOISE (max.) Note.2		150mVp-p	150mVp-p	150mVp-p	200mVp-p	250mVp-p	250mVp-p	250mVp-p	350mVp-p	
							2001110-0	200mvp-p	230mvp-p	990111Ab-b	
	VOLTAGE ADJ. RANGE	Adjustable for A/C-Type only (via built-in potentiometer) 10.8 ~ 13.5V 13.5 ~ 17V 17 ~ 22V 21 ~ 26V 26 ~ 32V 32 ~ 39V 38 ~ 45V 43 ~ 52V 49 ~ 58V									
	CURRENT ADJ. RANGE		r A/AB/C-Type		· ·	, <i>'</i>	1	1	1	1	
		11 ~ 22A	9.5 ~ 19A	7.5 ~ 15A	6.67 ~ 13.34A	5.35 ~ 10.7A	4.45~8.9A	3.8~7.65A	3.35~6.7A	2.97 ~ 5.954	
	VOLTAGE TOLERANCE Note.3	$\pm 3.0\%$	±2.0%	$\pm 1.5\%$	±1.0%	±1.0%	$\pm 1.0\%$	±1.0%	±1.0%	±1.0%	
	LINE REGULATION	$\pm 0.5\%$	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	LOAD REGULATION	±2.0%	±1.5%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	
	SETUP, RISE TIME Note.6	2500ms 80m	s/115VAC 6	00ms 80ms/2	30VAC	1	1	1	1		
	HOLD UP TIME (Typ.)	2 2500ms,80ms/115VAC 600ms,80ms/230VAC									
		15ms / 115VAC, 230VAC									
	VOLTAGE RANGE Note.5	90 ~ 305VAC 127 ~ 431VDC (Please refer to "STATIC CHARACTERISTIC" section)									
	FREQUENCY RANGE	47 ~ 63Hz									
		PF≧0.98/115	SVAC, PF≧0.9	5/230VAC, PF	≥0.94/277VA0	C @ full load					
	POWER FACTOR (Typ.)		to "POWER FA			0					
			@ load≧50%	. ,		,	C)				
INPUT	TOTAL HARMONIC DISTORTION		w load ≥ 50% f r to "TOTAL HA				U				
					· · ·	, ,	04 50/	050/	059/	0.50/	
	EFFICIENCY (Typ.) (230Vac)	91%	92.5%	93.5%	94%	94%	94.5%	95%	95%	95%	
	EFFICIENCY (Typ.) (277Vac)	91.5%	93%	94%	94.5%	94.5%	95%	95%	95%	95%	
	AC CURRENT (Typ.)	3.5A / 115VA	C 1.65A/	230VAC	1.45A / 277VAC)					
	INRUSH CURRENT(Typ.)	COLD START	70A(twidth=101	0µs measured	at 50% Ipeak) at	230VAC; Per N	IEMA 410				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	1 unit (circuit breaker of type B) / 2 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA/27	7VAC								
PROTECTION											
	OVER CURRENT Note.4	95~108%									
		Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT		recovers auto			1					
		14 ~ 17V	17.5~21V	22.5 ~ 27V	27 ~ 33V	33 ~ 37V	40 ~ 46V	46.5~53V	53.5~60V	59~65V	
	OVER VOLTAGE	Shut down an	d latch off o/p	/oltage, re-pow	ver on to recove	er					
	OVER TEMPERATURE	Shut down an	d latch off o/p	/oltage, re-pow	ver on to recove	er					
	WORKING TEMP.	Shut down and latch off o/p voltage, re-power on to recover Tcase= -40 ~ +90°C (Please refer to "OUTPUT LOAD vs TEMPERATURE" section)									
ENVIRONMENT		Tcase= +90°									
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.03%/°C (0~50°C)									
	VIBRATION	10~500Hz, 5	G 12min./1cyc	le, period for 7	72min. each ald	ong X, Y, Z axe	s				
SAFETY &	SAFETY STANDARDS	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes UL8750(type"HL"), CSA C22.2 No. 250.0-08; BS EN/EN/AS/NZS 61347-1, BS EN/EN/AS/NZS 61347-2-13 independent; GB19510.1,GB19510.14; IP65 or IP67 (except for HLG-320H C-type); J61347-1, J61347-2-13 (except for B,AB,C and D-type), EAC TP TC 004;KC61347-1,KC61347-2-13(except for AB,C-type), BIS IS 15885(Part2/Sec13) (NOTE 13) approved									
	WITHSTAND VOLTAGE	I/P-O/P:3.75	KVAC I/P-F	G:2KVAC O	P-FG:1.5KVA	С					
	ISOLATION RESISTANCE		G, O/P-FG:10								
EMC	EMC EMISSION	Compliance to	o BS EN/EN55	015, BS EN/EN	155032 (CISPR	(32) Class B, B	S EN/EN6100	0-3-2 Class C	(@ load≧50%);	
	EMC IMMUNITY	BS EN/EN61000-3-3,GB/T 17743 , GB17625.1,EAC TP TC 020 Compliance to BS EN/EN61000-4-2,3,4,5,6,8,11, BS EN/EN61547, BS EN/EN55024, light industry level (surge immur							inity		
OTHERS	MTBF	Line-Earth 4KV, Line-Line 2KV), EAC TP TC 020 1702.2K hrs min. Telcordia SR-332 (Bellcore); 157.2K hrs min. MIL-HDBK-217F (25°C)									
	DIMENSION	252*90*43.8r	nm (L*W*H)								
	PACKING		/16Kg/0.92CUF	T							
NOTE	 All parameters NOT specially Ripple & noise are measured Tolerance : includes set up to Please refer to "DRIVING M De-rating may be needed ur Length of set up time is meas The driver is considered as a complete installation, the fina (as available on https://www. To fulfill requirements of the l connected to the mains. This series meets the typical Please refer to the warranty The ambient temperature d For any application note an https://www.meanwell.com/ 	der low input voltages. Please refer to "STATIC CHARACTERISTIC" sections for details. sured at first cold start. Turning ON/OFF the driver may lead to increase of the set up time. component that will be operated in combination with final equipment. Since EMC performance will be affected by the l equipment manufacturers must re-qualify EMC Directive on the complete installation again. neanwell.com//Upload/PDF/EMI_statement_en.pdf) atest ErP regulation for lighting fixtures, this LED driver can only be used behind a switch without permanently life expectancy of >62,000 hours of operation when Tcase, particularly (c) point (or TMP, per DLC), is about 75°C or less. statement on MEAN WELL's website at http://www.meanwell.com. arating of 3.5°C/1000m with fanless models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft) d IP water proof function installation caution, please refer our user manual before using.									
	 more information. 14. For A/AB type need to cons % Product Liability Disclaimer 	sider build in u	sing to comply	with Type HL	application.				ame:HLG-320H-SI		



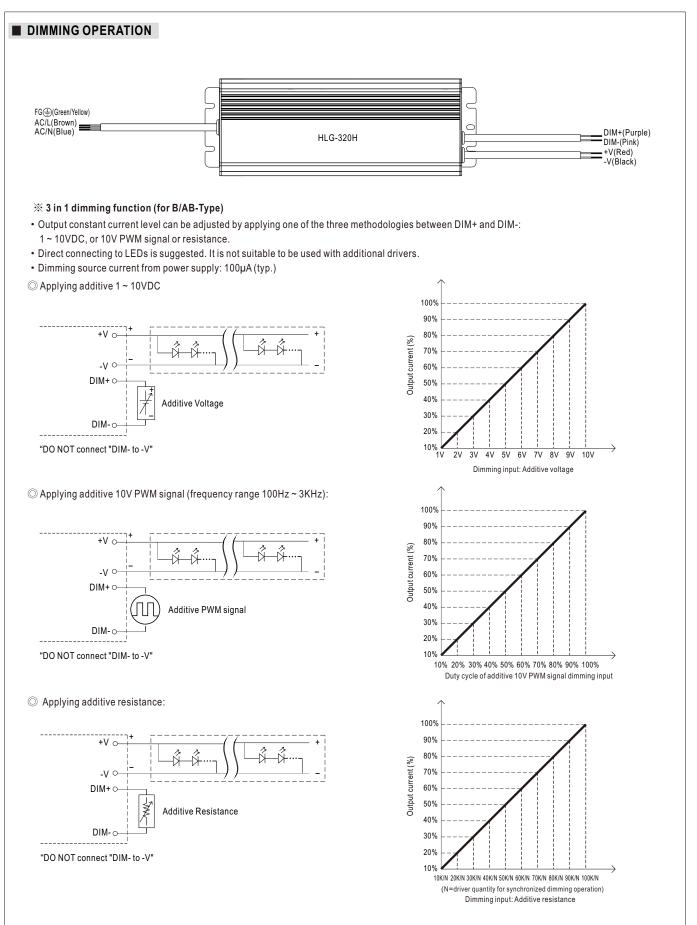
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Typical output current normalized by rated current (%)



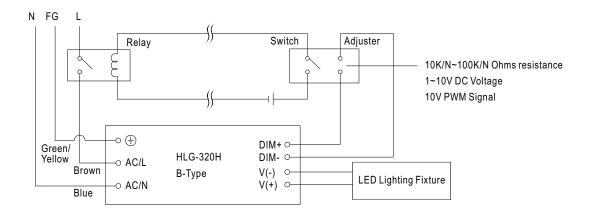
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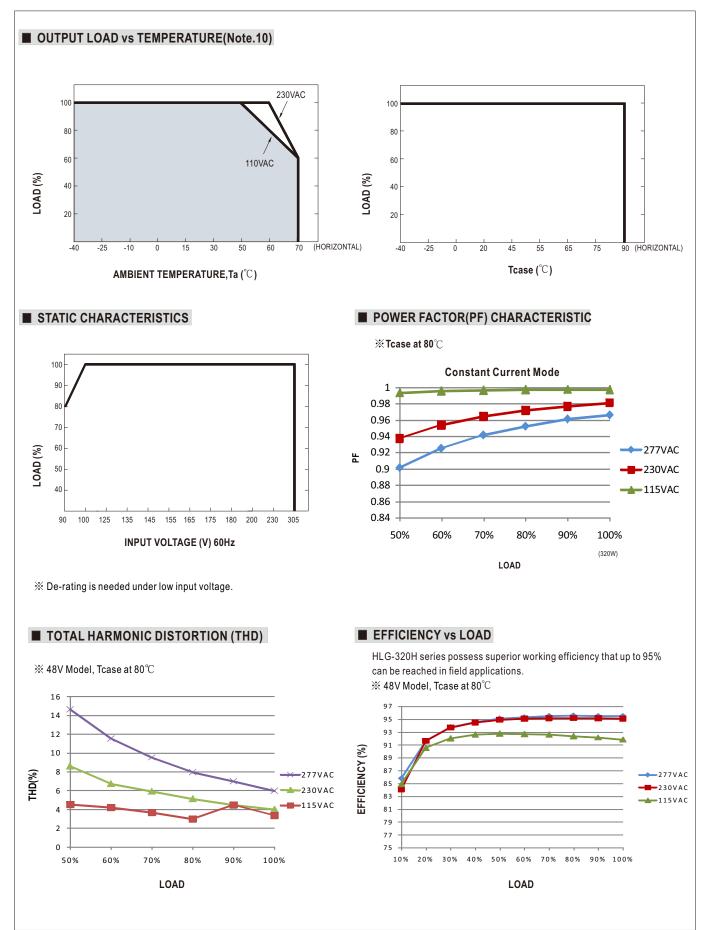
Note: In the case of turning the lighting fixture down to 0% brightness, please refer to the configuration as follow, or please contact MEAN WELL for other options.



Using a switch and relay can turn ON/OFF the lighting fixture.



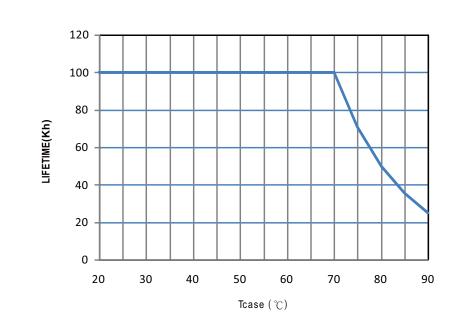
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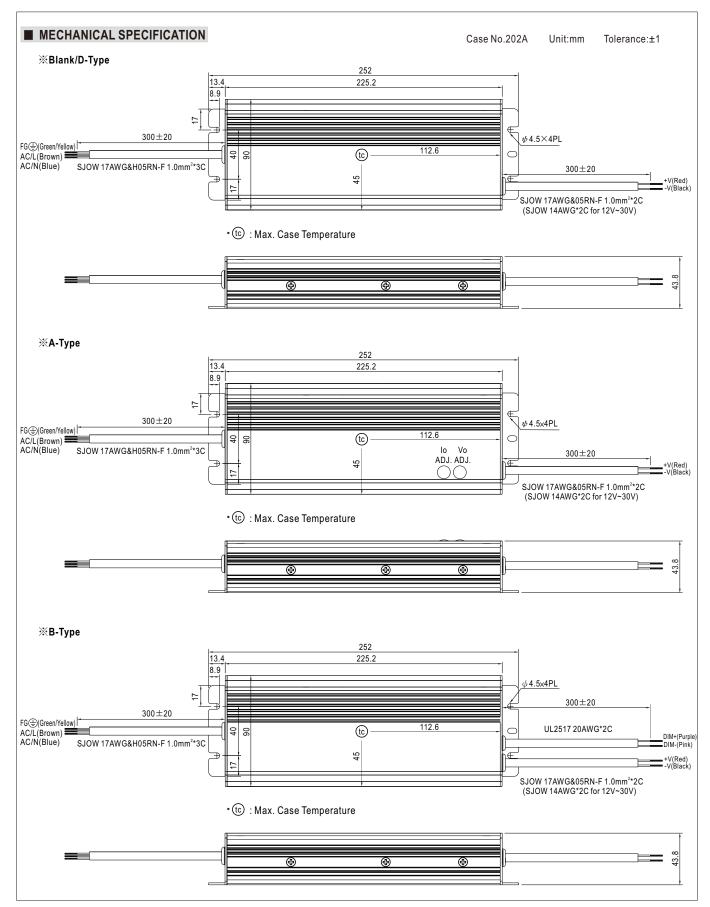
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■ LIFETIME





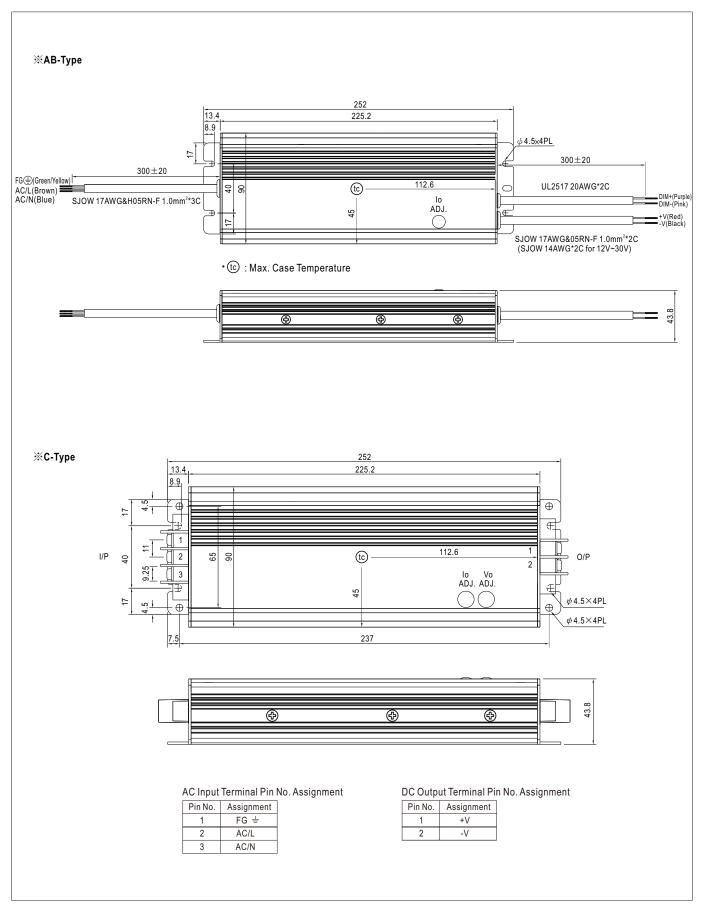
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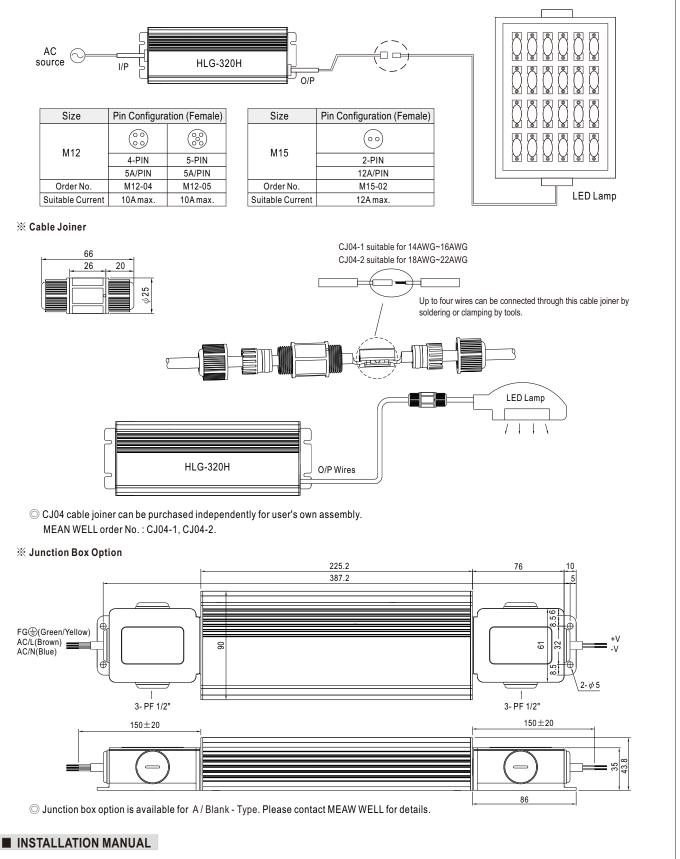


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WATERPROOF CONNECTION

$\divideontimes {\rm Waterproof\, connector}$

Waterproof connector can be assembled on the output cable of HLG-320H to operate in dry/wet/damp or outdoor environment.



Please refer to : http://www.meanwell.com/manual.html